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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/668,151

09/24/2003

Jae Bum Kim

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7590

03/14/2005

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EXAMINER

DI GRAZIO, JEANNE A

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 03/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

4A

Office Action Summary

Application No.

10/668,151

Applicant(s)

KIM ET AL.

Examiner

Jeanne A. Di Grazio

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-44 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Election/Restrictions

This application contains the following patentably distinct species of the claimed invention:

Species A, an exemplary embodiment, Figure 6, Specification [0063]-[0065], drawn to a backlight device wherein a light source (200) is formed along one side of a light-guiding plate (100) and in which a plurality of white W, red R, green G, and blue B LEDs may be sequentially arranged for emitting light and each LED may further include a body part (200b) and a light-emitting part (200a).

Species B, another exemplary backlight device, Figure 8, Specification [0067]-[0068], drawn to a backlight device wherein light sources (200) are formed along both sides of a light-guiding plate (100) to provide improved light efficiency and color realization ratio.

Species C, another exemplary backlight device, Figure 9, Specification [0069]-[0070], drawn to a backlight device wherein a sub-light guiding plate (102) may receive respective color light from a light source (103) and emit white light by mixing the respective color light and furthermore comprising a second reflecting plate (106) as shown.

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Species D, another exemplary backlight device, Figure 9, Specification [0072]-[0074], drawn to a backlight device comprising first and second light sources (62 and 63) and in which the first light source (62) is arranged along one side of a light-guiding plate (61) in which a plurality of LEDs may be linearly arranged in an order of green G, blue B and red R LEDs along a single row as shown. The second light source (63) may be linearly arranged along a different row from the first light source (62) in which a plurality of LEDs may be arranged along a single row.

Species E, another exemplary backlight device, Figure 12, Specification [0076], drawn to a backlight device comprising first and second light sources (62 and 63) and in which first light sources (62) may be formed along both sides of a light-guiding plate (61) in which a plurality of LEDs may be arranged in order of green G, blue B, and red R LEDs along one dimension. The second light sources (63) may be formed along different rows from the first light sources (62) in which a plurality of LEDs may be arranged in one dimension.

Species F, another exemplary backlight device, Figure 13, Specification [0077]-[0079], drawn to a backlight device wherein a sub-light guiding plate (72) may be formed on an incident surface along one side of the main light-guiding plate (71). Substrate (78) is parallel with first and second reflecting plates (76 and 77).

Species G, another exemplary backlight device, Figure 14, Specification [0080], drawn to a backlight device wherein a sub-light guiding plate (72) is arranged as shown with regard to the

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main light-guiding plate (71) and substrate (78) is perpendicular to first and second reflecting plates (76 and 77).

Species H, another exemplary backlight device, Figure 15, Specification [0081], drawn to a backlight device wherein a sub-light guiding plate (72) is arranged as shown with regard to the main light-guiding plate (71) and first and second light sources (73 and 74) are arranged to have their electrodes bent at a predetermined angle and bonded to a substrate (78) to be parallel with first and second light sources (73 and 74).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeanne A. Di Grazio whose telephone number is (571)272-2289. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached on (571)272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeanne Andrea Di Grazio
Patent Examiner
Art Unit 2871

JDG


ROBERT H. KIM
SUPERVISORY PATENT EXAMINER
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